



EXPLORING INDUSTRIAL TECHNOLOGY EDUCATION

MINIMUM EQUIPMENT LIST

INSTRUCTIONAL EQUIPMENT AND SOFTWARE

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Television/VCR/DVD	1	1	1	25"
Overhead Projector with Screen	1	1	1	
A/V Cart/Media Storage Center	1	1	1	
LCD	1	1	1	
COMMUNICATIONS – COMPUTER AIDED DESIGN				
CAD Software	2	2	2	CAD Software, AutoCAD 2000 LT
Computer System	2	2	2	Refer to current Technical and Professional Education Technology Standards
Computer Printer, Ink Jet	1	1	1	Refer to current Technical and Professional Education Technology Standards
COMMUNICATIONS – VIDEO PRODUCTION				
Audio Cassette Player/Recorder	1	1	1	Interfacing with VCR player/recorder and video mixer listed
Audio Compact Disk Player	1	1	1	Stereo
Headphone	2	2	2	Stereo
Microphone	2	2	2	Interfacing w/audio cassette player/recorder and video mixer listed
Tripod, CamCorder	1	1	1	2'-5' collapsing, w/extension legs
VCR Player/Recorder	2	2	2	1/2" VHS, with external connections for video camera and monitor
Video CamCorder	1	1	1	1/2" VHS, portable w/ battery pack and carrying case
Video Editing Processor	1	1	1	Interfacing with VCR listed
Video Monitor	2	2	2	19" color, cable ready
COMMUNICATIONS – RADIO PRODUCTION				
Audio Amplifier	1	1	1	Stereo
Audio Cassette Player/Recorder	1	1	1	Stereo, Dual Cassette

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
Audio Compact Disk Player	1	1	1	Stereo
Audio Mixer	1	1	1	Stereo
Headphones	2	2	2	Stereo
Microphone	2	2	2	
Speaker System	2	2	2	Modular speaker systems with bass and treble speakers
COMMUNICATIONS – DESKTOP PUBLISHING & COMPUTER GRAPHICS				
Computer	2	2	2	Refer to current Technical and Professional Education Technology Standards
Computer Monitor	2	2	2	Refer to current Technical and Professional Education Technology Standards
Computer Printer, Ink Jet	1	1	1	Refer to current Technical and Professional Education Technology Standards
Computer Scanner	1	1	1	Refer to current Technical and Professional Education Technology Standards
Copier	1	1	1	Refer to current Technical and Professional Education Technology Standards
Desktop Publishing Software	2	2	2	Adobe Pagemaker
CONSTRUCTION – ARCHITECTURAL DESIGN				
CAD Software	2	2	2	AutoCAD 2000 LT
Computer	2	2	2	Refer to current Technical and Professional Education Technology Standards
Computer Monitor	2	2	2	Refer to current Technical and Professional Education Technology Standards
Computer Printer, Ink Jet	1	1	1	Refer to current Technical and Professional Education Technology Standards
CONSTRUCTION – MATERIALS TESTING & ANALYSIS				
Pressure/Strength Tester	1	1	1	Hydraulic, Pneumatic, or Mechanical destructive pressure test stand which can measure weight or pressure applied

Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
CONSTRUCTION – STRUCTURAL SYSTEMS				
Pressure/Strength Tester	1	1	1	Hydraulic, Pneumatic, or Mechanical destructive pressure test stand which can measure weight or pressure applied
CONSTRUCTION – SURVEYING				
Survey Rod and Target	1	1	1	9'6" wood or metal, feet and 10ths divisions
Transit Level	1	1	1	20x scope, with carrying case
Transit Tripod	1	1	1	Wide frame, extension leg, w/head to fit transit level above
ENERGY, POWER & TRANSPORTATION – AUTOMOTIVE DESIGN				
Band Saw, Jig Saw, or Scroll Saw	1	1	1	10" bench model
Belt/Disc Sander	1	1	1	1/2 HP, 1" x 42" belt, 8" disc
Drill	1	1	1	Electric, 1/4" drive, variable speed, reversing
Drill Press	1	1	1	8" bench model
Racing Gate	1	1	1	Start/finish gates for CO2 racer, w/firing pin and housing
Rotary Modeling Tool	2	2	2	With various bits for modeling with wood
Spray Booth	1	1	1	Table top, with or without exhaust
Vise	2	2	2	Tabletop, woodworkers vise or equivalent
ENERGY, POWER & TRANSPORTATION – INTERNAL COMBUSTION ENGINE REPAIR				
Buffer/Grinder	1	1	1	6", 1/3 HP, dual wheel, wire brush, bench model
Drill	1	1	1	Electric, 1/4" drive, variable speed, reversing
Gasoline Engine	6 (1 per period)	6 (1 per period)	6 (1 per period)	2.0+ horsepower, single cylinder, four stroke cycle, horizontal or vertical shaft
ENERGY, POWER & TRANSPORTATION – FLIGHT SIMULATOR & ROCKET DESIGN				
Computer	2	2	2	Refer to current Technical and Professional Education Technology Standards
Computer Monitor	2	2	2	Refer to current Technical and Professional Education Technology Standards



Item Name	Count 15 Students	Count 20 Students	Count 25 Students	Description/Specification
ENERGY, POWER & TRANSPORTATION – ELECTRONICS				
Electronics Trainer	1	1	1	Basic Electronic Systems Desktop Electronics Trainer
MANUFACTURING - ROBOTICS				
Robotic Work Cell	1	1	1	Robotic workcell with conveyors, optic sensors, programmer, micro-switches, student workbooks
MANUFACTURING - PNEUMATICS				
Pneumatics Trainer	1	1	1	Desktop Pneumatics Trainer
MANUFACTURING - WELDING				
Welding Simulator	1	1	1	Desktop Welding Simulator
MANUFACTURING – COMPUTER AIDED MANUFACTURING				
CAD Software	1	1	1	AutoCAD 2000 LT
CAD/CAM Software	1	1	1	Compatible with CNC Mill or Lathe above
CNC Mill or Lathe	1	1	1	Vertical mill or lathe, benchtop
Computer	1	1	1	Refer to current Technical and Professional Education Technology Standards
Computer Monitor	1	1	1	Refer to current Technical and Professional Education Technology Standards
Computer Printer, Ink Jet	1	1	1	Refer to current Technical and Professional Education Technology Standards